

Listing of the Claims:

The following listing of claims will replace all prior versions and listings of claims in the application.

1.-37. (Canceled)

38. (Previously Presented) A hyperimmune serum-reactive antigen comprising an amino acid sequence from any of SEQ ID NOs: 218-434, 449-462, or 475-486 or fragments thereof.

39. (Previously Presented) The hyperimmune serum-reactive antigen or fragment of claim 38, further defined as a peptide comprising an amino acid sequence described in: the “predicted immunogenic aa” and/or “location of identified immunogenic region” column of Table 1A and/or Table 5; the “Identical region” column of Table 1B; the “aa from” to “aa to” columns of any of Tables 2, 4, 6, and 7.

40. (Previously Presented) The hyperimmune serum reactive antigen or fragment of claim 38, further defined as comprising an amino acid sequence of amino acids: 4-20, 35-44, 65-70, 73-87, 92-98, 112-137, 152-161, 177-186, 193-200, 206-213, 229-255, 282-294, 308-313, 320-326, 349-355, 373-384, 388-406, 420-425 and 115-199 of SEQ ID NO:218; 5-24, 35-41, 44-70, 73-89, 103-109, 127-143, 155-161, 185-190, 192-207, 212-219, 246-262, 304-336, 372-382, 384-393, 398-407, 412-418, 438-444, 1-75, 76-161 and 164-239 of SEQ ID NO:219; 4-10, 16-58, 60-71, 77-92, 100-126, 132-146, 149-164, 166-172, 190-209, 214-220, 223-229, 241-256, 297-312, 314-319, 337-343, 351-359, 378-387, 398-418, 421-428, 430-437, 440-448, 462-471, 510-519, 525-536, 552-559, 561-568, 573-582, 596-602, 608-630, 637-649, 651-665, 681-702, 714-732, 739-745, 757-778, 790-805, 807-815, 821-829, 836-842, 846-873, 880-903, 908-914, 916-923, 931-940, 943-948, 956-970, 975-986, 996-1015, 1031-1040, 1051-1069, 1072-1095, 1114-1119, 1130-1148, 1150-1157, 1169-1176, 1229-1238 and 802-812 of SEQ ID NO:220; 5-12, 14-26, 35-47, 52-67, 72-78, 83-98, 121-141, 152-159, 163-183, 186-207, 209-257, 264-277, 282-299, 301-309, 312-318, 324-339, 358-368, 372-378, 387-397, 425-431 and 46-291 of SEQ ID NO:221; 29-38, 44-64, 70-76, 78-87, 94-100, 102-112, 119-134, 140-149, 163-173, 178-186, 188-194, 207-234, 247-262, 269-290 and 73-92 of SEQ ID NO:222; 10-28, 36-63, 77-87, 103-119, 127-136, 141-169, 171-183, 195-200, 207-232, 236-246, 251-265, 268-283, 287-297, 314-322, 335-343, 354-363, 384-390, 405-411, 419-436, 443-455, 467-473, 480-513, 518-529, 550-

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10-18, 39-45, 51-61, 80-96, 98-106, 110-115, 158-172, 174-183, 191-200, 220-237, 249-255, 274-289, 308-324, 331-341, 372-381, 384-397, 405-414 and 322-338 of SEQ ID NO:240; 30-36, 38-56, 85-108, 134-147, 149-160, 163-183, 188-201, 206-211, 219-238, 247-254 and 5-13 of SEQ ID NO:241; 11-40, 98-103, 110-115, 133-145, 151-159, 172-179, 192-201, 204-212, 222-228, 235-245, 258-268, 283-296, 298-309, 322-329, 342-351, 354-362, 372-378, 385-393, 407-418, 495-516 and 1-148 of SEQ ID NO:242; 5-19, 21-36, 73-94, 112-119, 122-137, 139-145, 152-167, 184-190, 198-204, 208-224, 249-265, 267-281, 299-304, 309-317, 326-333, 356-364, 368-374, 381-389, 391-414, 419-425, 430-435 and 113-140 of SEQ ID NO:243; 45-54, 59-67, 78-91 and 15-23 of SEQ ID NO:244; 11-22, 33-47, 52-80, 88-112, 124-129 and 6-25 of SEQ ID NO:245; 26-41, 51-63, 80-89, 93-115, 150-163, 187-193, 220-237, 240-249, 286-294, 296-306, 316-329, 345-353, 361-370, 407-425, 428-437, 474-482, 484-494, 504-517, 533-541, 549-558, 595-613, 616-625, 660-668, 673-685, 711-726, 736-744, 749-761, 787-802, 812-820, 825-837, 863-878, 888-896, 901-913, 939-954, 964-972, 977-989, 1003-1008, 1016-1022, 1028-1034, 1041-1053, 1059-1074, 1101-1122, 420-511 and 581-704 of SEQ ID NO:246; 18-25, 27-55, 71-83, 89-95, 102-113, 120-146, 150-156, 174-185 and 159-175 of SEQ ID NO:247; 24-30, 38-56, 63-68, 87-93, 136-142, 153-164, 183-199, 213-219, 226-234, 244-261, 269-278, 283-289, 291-297, 320-328, 330-336, 340-346, 348-356, 358-366, 382-387, 401-408, 414-419, 449-455, 468-491, 504-512, 531-537, 554-560, 597-608, 621-627, 632-643, 650-662, 667-692, 703-716, 724-737, 743-758, 783-794, 800-818, 846-856 and 806-884 of SEQ ID NO:248; 4-14, 21-39, 86-92, 99-107, 121-131, 136-144, 147-154, 158-166, 176-185, 193-199, 207-222, 224-230 and 117-136 of SEQ ID NO:249; 65-76, 85-97, 103-109, 115-121, 125-146, 163-169, 196-205, 212-219, 228-237, 241-247, 254-262, 269-288, 294-303, 305-313, 328-367, 395-401, 405-412, 418-429, 437-447, 481-488, 506-513, 519-524, 530-541, 546-557 and 266-284 of SEQ ID NO:250; 5-14, 37-42, 49-71, 78-92, 97-112, 127-136, 147-154, 156-163, 186-198, 216-225, 233-243, 248-253, 295-307, 323-332, 359-366, 368-374, 380-398 and 194-223 of SEQ ID NO:251; 4-11, 33-39, 45-72, 100-113, 119-129, 136-144, 169-175, 177-185, 200-208, 210-219, 262-276, 278-297, 320-326, 336-344, 347-362, 381-394, 443-453 and 438-454 of SEQ ID NO:252; 4-29, 31-52, 55-61, 95-110, 138-158, 162-171, 179-187, 202-229, 239-248, 251-256, 262-267, 269-285, 304-310, 351-360, 362-368, 381-388, 415-428, 435-440, 448-458 and 161-178 of SEQ ID NO:253; 4-17, 19-28, 32-43, 47-59, 89-110, 112-126, 128-134, 140-148, 152-161, 169-184, 191-204, 230-235, 255-264, 328-338, 341-347, 401-409, 413-419, 433-441, 449-458, 463-468, 476-482, 486-492, 500-506, 529-545 and 305-381 of SEQ ID NO:254; 10-29, 38-45, 53-61, 134-145, 152-160, 163-

170, 202-208, 219-229, 248-258, 266-275, 282-288, 315-320, 328-334, 377-385, 392-402, 418-424, 447-453, 460-471, 479-487, 491-497, 500-507, 531-537, 581-594, 615-623, 629-635, 644-652, 659-666, 668-678, 710-717, 719-728, 736-741, 747-760, 766-773, 784-789, 794-800, 805-817, 855-861, 866-887 and 698-715 of SEQ ID NO:255; 16-26, 29-37, 44-58, 62-68, 74-80, 88-95, 97-120, 125-144, 165-196 and 58-72 of SEQ ID NO:256; 14-21, 23-46, 49-60, 63-74, 78-92, 96-103, 117-129, 134-161, 169-211, 217-231, 239-248, 252-281, 292-299, 313-343 and 243-257 of SEQ ID NO:257; 11-27, 46-52, 67-72, 76-84, 91-112, 116-153, 160-175, 187-196, 202-211, 213-220 and 43-76 of SEQ ID NO:258; 5-29, 37-56, 78-86, 108-118, 152-161 and 120-130 of SEQ ID NO:259; 8-14, 19-41, 52-66, 75-82, 87-92, 106-121, 127-133, 136-143, 158-175, 180-187, 196-204, 221-228, 239-245, 259-265, 291-306, 318-323, 328-340, 352-358, 361-368, 375-381, 391-399, 411-418, 431-442, 446-455, 484-496, 498-510, 527-533, 541-549, 558-565, 575-585, 587-594, 644-655, 661-668, 671-677 and 184-196 of SEQ ID NO:260; 4-22, 29-38, 55-62, 75-81, 102-107, 110-134, 143-150, 161-167, 172-179, 191-215, 223-233, 241-247, 251-264, 266-272, 288-309, 340-352, 354-366, 394-402, 414-438 and 198-218 of SEQ ID NO:261; 24-44, 49-70, 80-91, 105-118, 128-136, 140-154 and 77-92 of SEQ ID NO:262; 5-22, 31-36, 41-47, 67-74, 83-90, 105-122, 135-143, 160-167 and 118-129 of SEQ ID NO:263; 4-25, 33-73, 81-93, 96-106, 114-120, 122-128, 130-172, 179-208, 210-241, 251-283, 296-301 and 92-100 of SEQ ID NO:264; 14-24, 29-38, 43-50, 52-72, 86-97, 101-107, 110-125, 127-141, 145-157, 168-175, 177-184, 186-195, 205-226, 238-250, 255-261, 284-290, 293-304, 307-314, 316-323, 325-356, 363-371, 383-390, 405-415, 423-432, 442-454, 466-485, 502-511, 519-527, 535-556, 558-565, 569-574, 612-634, 641-655, 672-686, 698-709, 715-722, 724-732, 743-753, 760-769, 783-792, 818-825, 830-839, 842-849, 884-896, 905-918, 926-940, 957-969, 979-1007, 1015-1021, 1049-1057 and 336-349 of SEQ ID NO:265; 6-16, 26-31, 33-39, 62-73, 75-85, 87-100, 113-123, 127-152, 157-164, 168-181, 191-198, 208-214, 219-226, 233-254, 259-266, 286-329 and 181-195 of SEQ ID NO:266; 4-13, 32-39, 53-76, 99-108, 110-116, 124-135, 137-146, 149-157, 162-174, 182-190, 207-231, 242-253, 255-264, 274-283, 291-323, 334-345, 351-360, 375-388, 418-425, 456-474, 486-492, 508-517, 520-536, 547-560, 562-577, 31-45 and 419-443 of SEQ ID NO:267; 15-26, 30-37, 42-49, 58-90, 93-99, 128-134, 147-154, 174-179, 190-197, 199-205, 221-230, 262-274, 277-287, 300-314, 327-333, 343-351, 359-377, 388-396, 408-413, 416-425, 431-446 and 246-256 of SEQ ID NO:268; 5-26, 34-42, 47-54, 61-67, 71-104, 107-115, 131-138, 144-153, 157-189, 196-202, 204-210, 228-245, 288-309, 316-329, 332-341, 379-386, 393-399, 404-412, 414-421, 457-468, 483-489, 500-506, 508-517, 523-534, 543-557, 565-580, 587-605, 609-617,

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224, 264-275 and 107-118 of SEQ ID NO:316; 4-18, 21-38, 63-72, 101-109, 156-162, 165-179, 183-192, 195-210, 212-218, 230-239, 241-256, 278-290, 299-311, 313-322, 332-341, 348-366, 386-401, 420-426, 435-450, 455-460, 468-479, 491-498, 510-518, 532-538, 545-552, 557-563, 567-573, 586-595, 599-609, 620-626, 628-636, 652-657, 665-681 and 1-198 of SEQ ID NO:317; 4-10, 16-38, 51-68, 73-79, 94-115, 120-125, 132-178, 201-208, 216-223, 238-266, 269-295, 297-304, 337-342, 347-356, 374-401, 403-422, 440-447, 478-504, 510-516, 519-530, 537-544 and 191-206 of SEQ ID NO:318; 12-40, 42-48, 66-71, 77-86, 95-102, 113-120, 129-137, 141-148, 155-174, 208-214, 218-225, 234-240, 256-267, 275-283, 300-306, 313-321, 343-350, 359-367, 370-383, 398-405, 432-439, 443-461, 492-508, 516-526, 528-535 and 370-478 of SEQ ID NO:319; 6-14, 20-37, 56-62, 90-95, 97-113, 118-125, 140-145, 161-170, 183-202, 237-244, 275-284, 286-305, 309-316, 333-359, 373-401, 405-412 and 176-187 of SEQ ID NO:320; 33-44, 50-55, 59-80, 86-101, 129-139, 147-153, 157-163, 171-176, 189-201, 203-224, 239-245, 257-262, 281-287, 290-297, 304-320, 322-331, 334-350, 372-390, 396-401, 71-88 and 353-372 of SEQ ID NO:321; 5-11, 15-24, 26-33, 40-47, 75-88, 95-103, 105-112 and 17-30 of SEQ ID NO:322; 5-11, 16-39, 46-54, 62-82, 100-107, 111-124, 126-150, 154-165, 167-183, 204-238, 245-295, 301-313, 316-335 and 8-16 of SEQ ID NO:323; 4-19, 34-48, 69-74, 79-107, 115-127, 129-135, 143-153, 160-169, 171-182 and 142-153 of SEQ ID NO:324; 4-30, 65-74, 82-106, 110-120, 124-132, 135-140, 146-175, 179-184, 190-196, 217-223, 228-233, 250-267, 275-292, 303-315, 322-332 and 174-186 of SEQ ID NO:325; 9-16, 29-41, 47-57, 68-84, 87-109, 113-119, 162-180, 186-193, 195-201, 203-208, 218-230, 234-243, 265-271, 281-292, 305-312, 323-332, 341-347, 349-363, 368-374, 383-390, 396-410, 434-440, 446-452, 455-464, 466-473, 515-522, 529-542, 565-570, 589-600, 602-613, 618-623, 637-644, 1019-1027, 1238-1244, 1258-1264, 1268-1276, 1281-1292, 1296-1302 and 883-936 of SEQ ID NO:326; 10-17, 23-32, 39-44, 54-72, 75-81, 88-111, 138-154, 160-167, 178-185, 201-210, 236-252, 327-334, 336-342, 366-376, 388-400, 410-430, 472-482, 493-526, 552-558, 586-592, 598-603, 612-621, 630-635, 641-660 and 384-393 of SEQ ID NO:327; 4-22, 24-39, 50-59, 73-84, 100-105, 111-117, 130-138, 155-161, 173-178, 182-189, 205-215, 266-284, 308-313, 321-328, 330-337, 346-363, 368-374, 388-395, 397-405, 426-434, 453-459, 482-492, 501-507, 509-515, 518-523, 527-544, 559-590, 598-612, 614-629, 646-659, 663-684, 686-694, 698-721 and 445-461 of SEQ ID NO:328; 14-22, 27-33 and 3-17 of SEQ ID NO:329; 29-41, 66-73, 81-87, 90-108, 140-146, 150-159, 165-184, 186-196, 216-226, 230-238, 247-253, 261-269 and 126-140 of SEQ ID NO:330; 5-12, 16-25, 27-33, 36-45, 60-68, 83-88, 103-126 and 86-101 of SEQ ID NO:331; 14-23, 36-47, 56-66, 84-89, 94-105, 111-127, 140-153,

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NO:227; 163-174 of SEQ ID NO:229; 26-37 of SEQ ID NO:230; 174-189 of SEQ ID NO:232; 240-256 of SEQ ID NO:234; 285-297 of SEQ ID NO:236; 238-247 of SEQ ID NO:238; 491-519 of SEQ ID NO:239; 114-140 of SEQ ID NO:243; 267-284 of SEQ ID NO:250; 439-453 of SEQ ID NO:252; 162-178 of SEQ ID NO:253; 347-364 of SEQ ID NO:254; 699-715 of SEQ ID NO:255; 60-71 of SEQ ID NO:256; 244-257 of SEQ ID NO:257; 44-63 and 57-76 of SEQ ID NO:258; 185-196 of SEQ ID NO:260; 119-129 of SEQ ID NO:263; 182-195 of SEQ ID NO:266; 32-44 and 424-442 of SEQ ID NO:267; 247-256 of SEQ ID NO:268; 678-694, 785-805, 55-77 and 72-94 of SEQ ID NO:269; 210-226 of SEQ ID NO:281; 37-59 of SEQ ID NO:289; 13-29 of SEQ ID NO:296; 136-159 of SEQ ID NO:348; 205-222 of SEQ ID NO:349; 99-110 of SEQ ID NO:350; 160-176 of SEQ ID NO:351; 457-470 of SEQ ID NO:355; 221-237 of SEQ ID NO:356; 167-190 of SEQ ID NO:357; 96-120 of SEQ ID NO:361; 399-417, 503-519 and 544-563 of SEQ ID NO:364; 46-68, 159-183 and 184-198 of SEQ ID NO:371; 463-481 of SEQ ID NO:372; 110-129 and 168-184 of SEQ ID NO:219; 877-901, 333-354, 326-344 and 801-809 of SEQ ID NO:277; 1-54 of SEQ ID NO:347; 544-563, 31-51, 107-119, 399-417 and 503-519 of SEQ ID NO:364; 120-198 of SEQ ID NO:218; 20-35 of SEQ ID NO:219; 118-201 of SEQ ID NO:221; 48-132 of SEQ ID NO:242; 118-136 of SEQ ID NO:249; 162-178 of SEQ ID NO:253; 347-364 of SEQ ID NO:254; 699-715 of SEQ ID NO:255; 50-76 of SEQ ID NO:258; 785-819 and 44-128 of SEQ ID NO:269; 90-128 of SEQ ID NO:274; 314-384 of SEQ ID NO:289; 327-349 of SEQ ID NO:293; 242-314, 405-478 and 23-100 of SEQ ID NO:304; 129-210 of SEQ ID NO:305; 162-188 of SEQ ID NO:307; 750-772 of SEQ ID NO:310; 1-56 of SEQ ID NO:335; 322-337 of SEQ ID NO:337; 72-90 of SEQ ID NO:339; 374-395 of SEQ ID NO:345; 136-159 of SEQ ID NO:348; 141-164 of SEQ ID NO:358; 96-157 of SEQ ID NO:361; 1-82 of SEQ ID NO:363; 489-556 of SEQ ID NO:364; 159-183 and 49-133 of SEQ ID NO:371; 4-26, 35-41, 53-61, 73-84, 103-108, 114-120, 140-146, 156-162, 192-208, 214-219, 227-233, 239-252, 260-268, 284-297, 1-48 and 113-133 of SEQ ID NO:475; 4-27, 38-44, 50-56, 59-64, 72-79, 83-89, 92-97, 108-116, 123-148, 152-167, 183-196, 200-220, 232-244, 255-261, 265-274, 282-302, 309-317, 1-79 and 231-302 of SEQ ID NO:476; 6-28, 66-72, 85-105, 115-121, 144-151, 160-170, 176-185, 223-230, 252-288, 296-310, 319-333, 367-374, 458-464, 471-480, 483-488, 520-528, 530-549, 559-564, 593-601, 606-616, 636-643, 655-662, 676-682, 684-699, 719-726, 735-750, 757-764, 777-785, 799-810, 812-843, 846-853, 868-873, 880-889, 891-899, 909-929, 934-940, 963-969, 998-1004, 1007-1014, 1016-1022, 1030-1046, 1-80 and 808-821 of SEQ ID NO:477; 7-24, 35-41, 75-81, 91-114, 122-132, 137-144, 148-156, 183-192, 194-200, 212-

228, 233-238, 251-258, 275-295, 326-332, 337-346, 1-79 and 305-321 of SEQ ID NO:478; 31-38, 42-52, 66-72, 86-92, 98-104, 115-122, 127-146, 154-164, 169-187, 198-212, 225-237, 255-269, 13-92 and 135-142 of SEQ ID NO:479; 4-36, 39-49, 63-69, 71-77, 81-88, 123-131, 133-139, 160-169, 174-180, 188-194, 210-217, 273-278, 289-300, 317-334, 336-341, 383-401, 425-438, 1-68, 212-270 and 402-446 of SEQ ID NO:480; 21-29, 31-42, 49-63, 72-79, 81-93, 112-132, 159-165, 188-195, 197-232, 262-267, 279-286, 294-301, 318-326, 348-366, 381-405, 409-426, 436-465, 471-480, 484-492, 497-505, 521-544, 554-561, 567-577, 581-589, 601-609, 611-622, 636-651, 653-667, 669-685, 700-708, 716-722, 729-744, 749-766, 780-786, 789-811, 814-864, 1-57 and 84-106 of SEQ ID NO:481; 6-24, 35-48, 57-63, 72-78, 87-92, 113-119, 123-137, 147-153, 173-181, 212-233 and 1-124 of SEQ ID NO:482; 13-34, 62-69, 78-83, 86-91, 98-104, 107-115, 146-159, 179-188, 195-205, 209-221, 226-233, 239-253, 276-282, 284-294, 297-308, 331-354, 375-382, 388-399, 421-433, 449-458, 464-469, 472-491, 508-513, 525-531, 534-550, 575-593, 601-618, 629-635, 654-661, 666-680, 706-721, 723-740, 771-805, 810-830, 845-851 and 1-84 of SEQ ID NO:483; 4-32, 45-64, 73-83, 86-92, 100-111, 125-147, 157-163, 170-175, 177-188, 226-232, 245-252, 258-274, 320-335, 348-359 and 1-71 of SEQ ID NO:484; 13-40, 43-71, 76-83, 87-101, 109-119, 125-156, 162-175, 182-219, 226-232, 240-262, 270-287, 306-318, 326-342, 344-408, 414-444, 449-456 and 1-51 of SEQ ID NO:485; 4-16, 18-34, 45-54, 99-108, 134-140, 203-212, 241-257, 266-274, 279-291, 308-315, 330-336, 355-370, 374-382, 402-410, 428-455, 466-472, 474-480, 531-554, 560-566, 572-580, 597-618, 632-660, 664-674, 676-685, 691-705, 708-735, 750-768, 1-87 and 342-480 of SEQ ID NO:486; 115-132 and 1-26 of SEQ ID NO:475; 33-55 of SEQ ID NO:476; 1-25 of SEQ ID NO:478; 37-61 of SEQ ID NO:479; 1-24 of SEQ ID NO:480; 1-23 of SEQ ID NO:481; 46-60 of SEQ ID NO:482; 1-28, 23-50 and 45-71 of SEQ ID NO:483; 1-22 and 17-38 of SEQ ID NO:484; 1-22 and 17-38 of SEQ ID NO:485; 1-27, 22-47 and 422-447 of SEQ ID NO:486; 115-132 and 1-47 of SEQ ID NO:475; 1-55 of SEQ ID NO:476; 22-85 of SEQ ID NO:477; 307-320 and 1-44 of SEQ ID NO:478; 15-76 and 40-92 of SEQ ID NO:479; 1-59, 213-269 and 403-445 of SEQ ID NO:480; 1-56 and 85-105 of SEQ ID NO:481; 37-121 of SEQ ID NO:482; 1-71 of SEQ ID NO:483; 1-38 of SEQ ID NO:484; 1-38 of SEQ ID NO:485; 1-47 of SEQ ID NO:486.

41. (Previously Presented) The hyperimmune serum-reactive antigen or fragment of claim 38, comprising at least 6 contiguous amino acids of any of SEQ ID NOs: 218-434, 449-462, or 475-486.

42. (Previously Presented) The hyperimmune serum-reactive antigen or fragment of claim 38, comprising at least 8 contiguous amino acids of any of SEQ ID NOs: 218-434, 449-462, or 475-486.

43. (Previously Presented) The hyperimmune serum-reactive antigen or fragment of claim 38, comprising at least 10 contiguous amino acids of any of SEQ ID NOs: 218-434, 449-462, or 475-486.

44. (Previously Presented) The hyperimmune serum-reactive antigen or fragment of claim 38, further defined as directed against *S. agalactiae*.

45. (Previously Presented) A pharmaceutical composition comprising a hyperimmune serum-reactive antigen or fragment of claim 38.

46. (Previously Presented) The pharmaceutical composition of claim 45, wherein the hyperimmune serum-reactive antigen or fragment is directed against *S. agalactiae*.

47. (Previously Presented) The pharmaceutical composition of claim 45, further defined as comprising at least two different hyperimmune serum-reactive antigens and/or fragments.

48. (Previously Presented) The pharmaceutical composition of claim 47, wherein the at least two different hyperimmune serum-reactive antigens and/or fragments are both directed against *S. agalactiae*.

49. (Previously Presented) The pharmaceutical composition of claim 45, further comprising an immunostimulatory substance.

50. (Previously Presented) The pharmaceutical composition of claim 49, wherein the immunostimulatory substance is a polycationic polymer, an immunostimulatory deoxynucleotide (ODN), a peptide containing at least two LysLeuLys motifs, a neuroactive compound, alum, or a Freund's complete or incomplete adjuvant.

51. (Previously Presented) The pharmaceutical composition of claim 50, wherein the polycationic polymer is a polycationic peptide.

52. (Previously Presented) The pharmaceutical composition of claim 50, wherein the neuroactive compound is human growth hormone.

53. (Previously Presented) The pharmaceutical composition of claim 45, further defined as a vaccine.

54. (Previously Presented) The pharmaceutical composition of claim 53, further defined as a vaccine for treatment and/or prevention of *S. agalactiae* infection.

55. (Withdrawn) A method of vaccinating a subject comprising:
obtaining a pharmaceutical composition of claim 45; and
administering the pharmaceutical composition to a subject;
wherein the subject is vaccinated.

56. (Withdrawn) The method of claim 55, wherein the subject is a human.

57. (Withdrawn) The method of claim 55, further defined as a method of treating and/or preventing *S. agalactiae* infection in the subject.

58. (Withdrawn) The method of claim 55, wherein the hyperimmune serum-reactive antigen or fragment is directed against *S. agalactiae*.

59. (Withdrawn) The method of claim 55, wherein the pharmaceutical composition comprises at least two different hyperimmune serum-reactive antigens or fragments thereof.

60. (Withdrawn) The method of claim 59, wherein the at least two different hyperimmune serum-reactive antigens or fragments thereof are both directed against *S. agalactiae*.